

Abstract of the Disclosure

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guidewire for medical use such as in vascular and nonvascular systems. The guidewire made from a titanium molybdenum alloy wire with a composition of approximately 78% titanium 11.5% molybdenum 6% zinc and 4.5% tin by weight such

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- 6 that it is softer than stainless steel guidewires and stiffer than NiTi alloy guidewires. The
- 7 distal end of the guidevire is of a smaller diameter and softer than the proximal end and
- 8 fitted with a coil for springiness such that the distal end will bend when encountering
- 9 curves in the body/passageways. The distal tip may be heat treated for a gradient of
- softness with the distal tip being the softest. The distal end may also be tapered to provide
- an additional gradient of softness. A distal tip on the distal end of the guidewire protects
- the wall of the passageway from being punctured as the guidewire travels through the
- passageway. The resulting guidewire has properties between those of stainless steel
- guidewires and NiTi alloy guidewires for better torsion and stiffness characteristics.